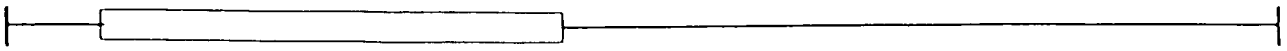
Recombination Associated Protein cDNA Clone

10/031893

A.

DRAP: 1378 bp Eco RI insert
ORF 104-610

1	134	281	902	970	1378
	ATG #1	ATG #50	AATAAA	(A)12	(A)29



B.

MASNNSSTTD	LDSQVNVEDL	PITFKVKYIG	SEVARGLWGI	KYTRRPVDIM	50
VGVAKNLPPN	KVLPNCELKV	STDGVQLEII	SPKASINHWS	YPIDTISYGV	100
QDLVYTRVFA	MIVVKDESSP	HPFEVHAFVC	DSRAMARKLT	FALAGRLPGL	150
LATGQGGNR					159

1 2 3

C.

Potential	D1-------(30 to 70)---D2---(35±)---E1 Motifs
AA#s	(10 or 12)---(36 to 38)---48---(30)--- 78
	(19)---(54)---73---(44)---117
	(19 or 48)---(46 to 75)---94---(30)---124

D.

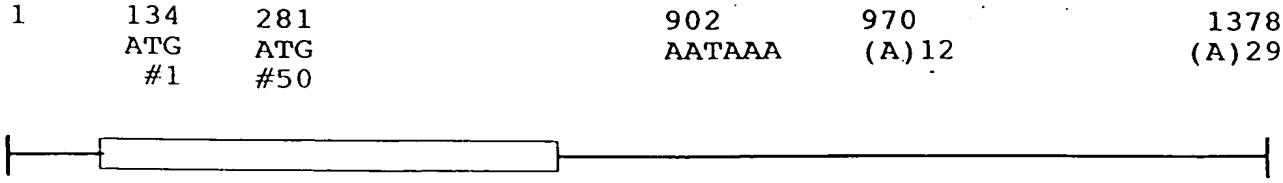
Rad 51	Mouse - Human	L L I V - D - S
Rad 51	Yeast	L I V V - D - S
DCM 1	Yeast	L I V V - D - S
RecA	E. Coli	V I V V - D - S
Drosophila DRAP		M I V V K D E S S P
FLP Recombinase		M I A L K D E T N P
T4 Gene 32 Protein		I L V V K D P A A P
		M I A V - DVE M G E
		K - GFS S E
Human Topoisomerase I		I K D E - - P
		K D G S S E
		GFS S P

Figures 4A-D (Amended)

Recombination-Associated Protein cDNA Clone

10/031893

A. DRAP: 1378 bp Eco RI insert
ORF 104-610



B.

PI

```
MASNNSSTTD  LDSQVNVEDL  PITFKVKYIG  SEVARGLWGI  KYTRRPVDIM    50
                                                    2
VGVAKNLPPN  KVLPNCELKV  STDGVQLEII  SPKASINHWS  YIPDTISYGV   100
QDLVYTRVFA  MIVVKDESSP  HPFEVHAFVC  DSRAMARKLT  FALAGRLPGL   150
                 1                       3
LATGGGGNR                                                   159
Q
```

C.

Potential	D1-------(30 to 70)---D2---(35±)---E1	Motifs
AA#s	(10 or 12)---(36 to 38)---48---(30)--- 78	
	(19)---(54)---73---(44)---117	
	(19 or 48)---(46 to 75)---94---(30)---124	

D.

Rad 51	Mouse - Human	L L I V - D - S
Rad 51	Yeast	L I V V - D - S
DCM 1	Yeast	L I V V - D - S
RecA	E. Coli	V I V V - D - S
Drosophila DRAP		M I V V K D E S S P
FLP Recombinase		M I A L K D E T N P
T4 Gene 32 Protein		I L V V K D P A A P
		M I A V - DVE M G E
		K - GFS S E
Human Topoisomerase I		I K D E - - P
		K D G S S E
		GFS S P

Figures 4A-D
(Mark-up)